

Exhibit B

**IN THE UNITED STATES DISTRICT COURT FOR THE
EASTERN DISTRICT OF PENNSYLVANIA**

IN RE: NATIONAL FOOTBALL LEAGUE PLAYERS' CONCUSSION INJURY LITIGATION
--

Kevin Turner and Shawn Wooden, on behalf of themselves and others similarly situated, Plaintiffs

v.

National Football League and NFL Properties, LLC, successor-in-interest to NFL Properties, Inc., Defendants.

THIS DOCUMENT RELATES TO: ALL ACTIONS
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**No. 2:12-md-02323-AB
MDL No. 2323**

DECLARATION OF JENNIFER J. MANLY

I, Jennifer J. Manly, Ph.D., declare:

1. I am a tenured Professor of Neuropsychology in Neurology at the Gertrude H. Sergievsky Center and the Taub Institute for Research on Alzheimer's Disease and the Aging Brain at Columbia University, where I have been on faculty since 1998. I completed my graduate training in clinical psychology, within the neuropsychology track, at the San Diego State University/University of California at San Diego Joint Doctoral Program in Clinical Psychology. After a clinical internship at Brown University, I completed a postdoctoral fellowship at Columbia University. I am a licensed psychologist in New York state. My research on social, medical, and genetic factors that increase risk or promote resilience to cognitive aging and Alzheimer's Disease among African Americans and Hispanics has been funded by the National Institute on Aging and the Alzheimer's Association. I have authored over 220 peer-reviewed publications and 10 chapters. I was awarded the Early Career Award from Division 40 of the American Psychological Association in 2002 and the Early Career Award from the National Academy of Neuropsychology in 2006, and in 2004 I was elected a Fellow of the APA. I served on the US Department of Health and Human Services Advisory Council on

Alzheimer's Research, Care and Services from 2011 to 2015, and was a member of the Alzheimer's Association Medical & Scientific Research Board from 2012 - 2019. I am currently serving on the National Advisory Council to the National Institute on Aging at NIH, and am a member of the National Academy of Sciences, Engineering, and Medicine Committee on Population. I held multiple roles on the Board of Governors of the International Neuropsychological Society, including Continuing Education Chair, Member-at-Large, and Publications Chair. I was an Associate Editor at the Journal of the International Neuropsychological Society from 2005 to 2014, and have served as consulting editor for many other journals including The Clinical Neuropsychologist, Neuropsychology, and Psychology and Aging. My credentials and publications are more fully set out in my curriculum vitae attached as Exhibit 1 to this Declaration.

2. Much of my professional work aims to improve the diagnostic accuracy of neuropsychological tests when used to detect mild cognitive impairment, dementia, and Alzheimer's Disease among African American and Hispanic older adults. This work clarifies the independent influences of early life socioeconomic factors, language use and bilingualism, acculturation, educational experiences, literacy, racism, and adult occupational opportunities on cognitive test performance, with the ultimate goal of understanding more about the pathways between racially patterned social factors, cognitive test performance, and brain health. I have been a leader in addressing the problem of misdiagnosis or misclassification of African Americans through examination of the role of lifecourse social factors that influence neuropsychological test performance in African Americans with and without cognitive impairment. The analysis of these social factors set a new standard in neuropsychology for accounting for quality of education, not just quantity of formal schooling.

3. I have been retained by Zuckerman Spaeder LLP at my standard rate for consulting to provide advice concerning the use of race-specific norms in neuropsychological tests performed to

determine eligibility for benefits under the Settlement Agreement entered in the NFL concussion litigation. The opinions in this Declaration are based on my training and experience.

4. I have reviewed Dr. Millis's Declaration. While I agree with Dr. Millis that demographically matched norms have a role to play in the diagnosis of neurological disease or injury, I do not agree that an adequate scientific foundation has been established for applying the available race-specific norms to interpret neuropsychological testing in the medico-legal context of the NFL Concussion Settlement. As I understand it, the neuropsychological tests administered under Exhibit A-2 of the Settlement Agreement are used to determine whether a retired NFL player has a "Qualifying Diagnosis" of Neurocognitive Impairment Level 1.5 or Level 2.0. "Qualifying Diagnosis" is a legal term defined in the Settlement Agreement, and is not medical diagnostic category. The results of the neurocognitive tests are not used to determine a retired player's medical treatment, nor would they be relied upon exclusively to ascertain a retired player's current abilities and likely progressive decline. Neuropsychological test norms are used in clinical or research settings to help determine if an individual's test scores are consistent with acquired cognitive impairment and the relative severity of the impairment. Demographic norms are used so that we can compare an individual's current cognitive test performance to our best estimate of the person's prior functioning. In the clinical setting, the results of cognitive tests are used in the context of other sources of data to determine a diagnosis. Dr. Millis states that use of race-specific norms is a commonly-accepted neuropsychological clinical practice; however, it is not commonly accepted practice to use norms that have not been validated and rigorously evaluated to be appropriate in the population in which they will be used. It is not commonly accepted practice to assume that normative data is adequate for the individual being tested, especially if the norms are 25 years outdated, are regionally specific, may include small numbers of Black men with college degrees. Given the context that neuropsychological tests are used under the NFL Settlement Agreement, the

normative standardization sample must be appropriate for use among NFL retirees, and there should be empirical evidence of the precision of the tests and norms for detection of impairment in this cohort. In my opinion, the use of race-specific norms in this context does not meet these necessary standards for scientific rigor.

5. I agree with Dr. Millis (§ 28) that the racial disparity observed in neuropsychological testing “is widely understood to be the product of factors other than race.” Much of my own professional work has involved identifying those factors¹; in fact, Dr. Millis cites a number of articles concerning that body of research of which I am the lead or co-author in his Declaration. Because race has been used as a variable in neuropsychological test norms as a proxy for other factors, as Dr. Millis notes, applying race-specific norms to retired NFL players who are eligible to seek benefits under the NFL Concussion Settlement is only appropriate if the populations used to develop the race-specific norms are representative of the individual or the specific population. That is, a retired player’s self-identified race is not the only variable to consider to determine if race-specific norms are appropriate.² Race-specific norms that did not include representatives of the population that and individual belongs to, may be no more accurate, or less accurate, than any other set of norms

¹ “Race and ethnicity are surrogates for other relevant variables whose effect on cognition and test performance are more direct. If we explicitly measure these behavioral, attitudinal, experiential, and psychological factors that underline racial classifications, we take advantage of this variability and improve our understanding of the role of race and culture on cognitive test performance. These variables, not race, account for the differences between African Americans and Whites on neuropsychological tests, and can inform us in future development of new measures that improve diagnostic accuracy and validity in multicultural populations.” Jennifer J. Manly, Advantages and Disadvantages of Separate Norms for African Americans, 19 *The Clinical Neuropsychologist* 270, 273 (2005) (Manly 2005).

² “Whether race-based norms should be used for the assessment of an individual patient is contingent on a number of factors. The clinician must have a good understanding of the patient’s educational and cultural background and experience. Do these experiences match with those of the normative group? Are there normative data sets that more similarly match the patient’s background and experience, even if not including race or ethnicity? Regardless of the patient’s race or ethnicity, clinicians should not consider neuropsychological test scores in isolation. That is, a test score, regardless of the normative group used to determine it, reflects one aspect of the patient’s presentation and should be interpreted in the context of a detailed qualitative assessment (Ethical Standard 9.01, Bases for Assessments, subsection a). In this vein, it would not be inappropriate to report scores derived from multiple normative data sets and explore the possible implications of discrepancies in a clinical evaluation report.” Adam M. Brickman, et al., Ethical Issues in Cross-Cultural Neuropsychology, 13 *Applied Neuropsych.* 91, 95 (2006)

that do not include race as a demographic variable. Even in a clinical setting, “[a]ny neuropsychologist who compares a patient’s test performance to a normative data set should question whether the norms used are appropriate for the patient. Criteria for this determination might include consideration of the time in history the norms were created; whether an adequate number of subjects was included; and, most importantly, that the normative data are appropriately stratified in ways that best capture demographic factors that contribute to performance on the test.”

Adam Brickman, et al., *Ethical Issues in Cross-Cultural Neuropsychology*, 13 *Applied Neuropsychology* 91, 93-94 (2006).

6. As Holdnack and Weiss explain in their chapter on demographic adjustments to the WAIS-IV (including tests used under the Settlement Agreement), “racial/ethnic status cannot be determined by any scientific means and it may not be possible to accurately classify an individual client.”³ Dr. Millis agrees with this statement, and yet he argues that any available race-specific norms are the best choice for precisely measuring the presence or severity of impairment, regardless of consideration of whether the player’s background is similar to the people who were included in the normative sample. Many researchers have discussed the danger of assuming that race-specific standards are appropriate in all cases, in part because these practices reify race as a biological construct (and not as the a social construct that it is⁴), they fail to recognize the racism and racial capitalism that have led to racial disparities in health, and because many race-corrections lack rigor, they may amplify health inequalities (Dorothy Roberts, *Fatal invention: How science, politics, and big business re-create race in the twenty-first century*; 2011). As the Special Masters’ decision in the Davenport appeal notes, the Manual for the WAIS also warns that “[c]aution is warranted when using norms adjusted for racial/ethnic group differences, as scores may be misunderstood or

³ James A. Holdnack & Larry G. Weiss, *Demographic Adjustments to WAIS-IV/WMS-IV Norms*, in *WAIS IV, WMS-IV, and ACS, Advanced Clinical Interpretation* 171, 199 (James A. Holdnack et al., eds. 2013).

⁴ “[R]ace is a construct that lacks scientific basis.” Manly (2005) at 272.

inappropriately interpreted. No scientific models exist for accurately identifying race and ethnicity (i.e., these are primarily social/political constructs).” SM Dec 8 (quoting N.C.S. Pearson, *Advanced Clinical Solutions for WAIS-IV and WMS-IV: Clinical and Interpretive Manual* (2009)). Although in the United States a person of mixed racial ancestry may identify as Black or African American, there is no scientific principle that would assign that individual to one race or another. “Proponents of the utilization of race-based norms need to explicitly highlight that the norms are not created as a claim of biological differences among groups; instead, race, like age or gender, is a strong correlate of other factors that impact performance but not an inherent cause of cognitive performance.” Brickman, et al., at 94. The apparent or self-identified ancestry of an individual may or may not correlate with the differences in culture and educational opportunity that have been shown to account for racial differences. For that reason, it is important to apply considerable scrutiny of the norms and provide a clear, empirically-based justification before deciding on a normative standard for people who are traditionally underrepresented in neuropsychological research and testing. The WAIS Manual cautions, “the use of race/ethnicity in normative data ignores the underlying cultural, health and educational factors that result in disparities in test performance; subsequently, adjustments are made on group membership, which may not fully represent the experiences and characteristics of a specific individual.” SM Dec 8 (quoting N.C.S. Pearson, *Advanced Clinical Solutions for WAIS-IV and WMS-IV: Clinical and Interpretive Manual* (2009)). In fact, White and Black retired NFL players may be more similar to each other than they are to the reference populations in the standardization samples used to develop Heaton or WAIS/WMS race-specific norms. Before norms are applied to any individual, empirical evidence must show that use of these norms improves diagnostic accuracy in the specific population of which that individual is a member. I am not aware of any published studies showing that diagnostic accuracy of cognitive impairment among Black and White retired NFL players is improved by applying different norms to interpret

neuropsychological test scores on the basis of a retired player's racial identification, and Dr. Millis does not present any such data.

7. Apart from whether there is a scientific basis to apply *different* interpretive standards to retired NFL players on the basis of race, there is the question whether people with backgrounds similar to Black retired NFL players are sufficiently well-represented within the populations used to generate the race-specific norms. Dr. Millis does not present any data about that question, and I am not aware of any published study addressing it. Taking the Heaton norms in particular, they were created by recruiting Black residents of San Diego in the 1990s (Robert K. Heaton, et al., Revised Comprehensive Norms for an Expanded Halstead-Reitan Battery: Demographically Adjusted Neuropsychological Norms for African American and Caucasian Adults Professional Manual 7, 2004) (“almost all of the African American participants were recruited specifically for this norming project, using a census- based survey method designed to provide a representative sample of neurologically normal participants from the San Diego area.”). We are not provided enough information to know how representative this sample of San Diego residents is of Black Americans right now, or even at the time the norms were collected (approximately 25 years ago). While a representative sample of African Americans was the goal of the Heaton et al. project, use of these norms in the Settlement should require verification of whether census-matching was achieved, as well as a comprehensive understanding of how the methods employed to recruit enough people in to specific demographic classifications (e.g., middle aged Black men with college degrees), might have differed from the methods used to recruit other subgroups. Different recruitment methods may create ascertainment bias, which has been shown to have significant impact on cognitive test performance and racial differences in cognitive trajectory. (Carey E. Gleason, et al, Association between enrollment factors and incident cognitive impairment in Blacks and Whites: Data from the Alzheimer's Disease Center, 15 Alzheimer's & Dementia. 1533-45; 2019). Several factors call into

question whether the African American cohort who participated in the Heaton norms project is representative of retired NFL players being tested under the Settlement. One particularly important factor is that Black retired NFL players are likely to have had very different educational opportunities than Black San Diego residents who were recruited and tested approximately 25 years ago. A 50-year old San Diego resident tested in 1995 was more likely to have attended segregated schools for most or all of their education, and the quality of those schools are likely to have differed. In addition, there are known geographic variations in neuropsychological test performance among neurologically normal people, which suggest that African American San Diego residents may not be an appropriate normative standard for all Black Americans (Alfred Sellers, et al, Differences in Young Children's IQs on the Wechsler Preschool and Primary Scale of Intelligence-Revised as a Function of Stratification Variables, 9 Applied Neuropsychology 65-73, 2002; M. Maria Glymour & Jennifer J. Manly, Lifecourse Social Conditions and Racial and Ethnic Patterns of Cognitive Aging, 18 Neuropsychology Rev. 223-254b, 2008; Melissa Lamar, et al, Relationship of Early-Life Residence and Educational Experience to Level and Change in Cognitive Functioning: Results of the Minority Aging Research Study, 75 J. of Gerontology e81-e92, 2020). In addition, secular changes should be taken in to account when applying neuropsychological test norms in order to improve their accuracy (Rhoda Au, et al, New Norms for a New Generation: Cognitive Performance in the Framingham Offspring Cohort, Experimental Aging Research 333-358, 2010) (“continued surveillance of each generation is necessary to document the impact that unique social and economic variables have on cognitive function.”). Dr. Millis does not present data that justifies the assumption that the participants in the Heaton norms are a good fit for the Black players being tested under the NFL Concussion Settlement, other than that they are Black.

9. Dr. Millis’s central argument is that “it was and is widely-used and commonly-accepted neuropsychological clinical practice to consider demographic factors, including race, when assessing

premorbid intellectual functioning, and in choosing normative adjustments to scale an individual's raw scores on cognitive tests." I agree, but Dr. Millis fails to acknowledge that testing in the context of this settlement bears little resemblance to common neuropsychological practice, and due to the way that neuropsychological tests are being used in the Settlement, the highest degree of rigor and precision should be required of the neuropsychological tests. In a clinical setting, neuropsychological test results would be one component of a comprehensive clinical assessment that would also take into account other available information about the individual's prior function and experiences. A clinician attempting to determine if a patient had cognitive decline would consider the results of neurocognitive tests along with other information about the patient's level of neurocognitive functioning at an earlier period of time. In contrast, under the Settlement, a retired player can be ruled out as eligible if, independent of all other considerations, he does not meet the statistical criteria in the Table in Exhibit A-2, which establishes specific numerical cutoffs for each test using T-scores derived with demographically specific norms and requires that (at least) 2 or more tests within each domain are below these cutoffs. In my opinion, the currently available race-specific norms lack the precision that is required for them to be used in this manner. To my knowledge, the data used to develop race-specific norms for the measures approved for use in the Settlement, and the algorithm presented, has never been validated as an accurate way to detect cognitive impairment in Black men with similar backgrounds (all the complex and intersecting experiences that comprise this background) as the retired NFL players.

10. A related difference in how neurocognitive tests are used under the NFL Concussion Settlement, as I understand it, and how they are used in a clinical setting, is that the consequences of false positives and false negatives are different. Every kind of diagnostic test can produce errors, both false negatives and false positives. In clinical practice, it is important to be aware of the sensitivity (the ability to detect true positives, meaning avoiding false negatives) and specificity

(avoiding false positives). Tests in clinical practice are chosen, and cutoffs are adjusted, with an eye to the harmful consequences of each kind of error. For example, screening tests for covid-19 must consider the accuracy of the test in concert with the potential harms of a false positive result (e.g., the hassle and cost of having to take another test, unnecessary quarantine, and emotional distress) and the potential public health impact of a false negative result (e.g., the person may unwittingly expose others to the virus). For a different disease or context, even if the tests have the same sensitivity and specificity, the balance of harms would be different. This balance should not only take in to account the public health impact of false positives and false negatives, but should also consider the prevalence of the condition in the population. If cognitive decline is more frequent in the population of retired NFL players, as some studies suggest (Jeff Schaffert, Neuropsychological functioning in ageing retired NFL players: a critical review, 32 Int'l Rev. of Psychiatry, 71-88, 2019), even at the same level of sensitivity and specificity, the Negative Predictive Value (the probability that players who do not meet the cuts truly don't have cognitive impairment) will go down. In the clinical setting, neuropsychologists deal with high or low base rates and potential harms of over- or under-diagnosis by carefully considering which cutoff to use, deciding how wide the confidence interval around each score should be, and also deciding how to weigh the test scores in the context of other evidence of decline from prior levels of function.

11. The impetus for developing demographic norms for neurocognitive testing is to reduce the rate of false positive and false negative diagnoses of neurocognitive impairment for everyone, and demographic adjustments can be especially useful in improving diagnostic accuracy of tests when used among people with demographic backgrounds that are not in the majority within the general population. As Dr. Millis states, it is standard clinical practice to use norms that consider demographic background when determining presence and severity of cognitive impairment. However, in my opinion, we lack scientific evidence that the Heaton norms decrease false negative

results (improve sensitivity) in people with backgrounds similar to the NFL players. In other words, there is insufficient evidence that the Heaton norms possess the level of precision that would be needed to require their use in determination of eligibility for the Settlement. Neuropsychologists who are experienced with assessment of Black adults may be willing to accept this imprecision in their regular clinical practice, but only because they would never rely on the specific rules in Exhibit A-2 of the Settlement to determine if someone was impaired. For example, a clinician who is experienced using the Heaton norms within the last 5 to 10 years among Black men who are graduates of top colleges in the Midwest of the United States, may not rule out impairment within the memory domain if a player obtained a Heaton T-score of 36 on one memory measure and a T-score of 37 on another. In clinical practice, neuropsychologists use their clinical judgement, consider reports of significant decline in daily function and loss of independence, and use their knowledge of the precision of the norms along with the pattern of results on neuropsychological testing, to determine if impairment is present.

I declare under penalty of perjury that the foregoing is true and correct.

Date: __11/02/2020__

Exhibit 1

to Declaration of

Jennifer J. Manly, PhD

CURRICULUM VITAE

DATE PREPARED October 2020

PERSONAL DATA

Name: Jennifer Jaie Manly, Ph.D.

Contact Information:

Taub Institute for Research on Alzheimer's Disease and the Aging Brain
Columbia University Medical Center
630 West 168th St. P&S Box 16
New York, NY 10032
voice: (212) 305 8604
fax: (212) 342 1838
email: jjm71@cumc.columbia.edu

Birthplace: Dayton, Ohio, USA

Citizenship: USA

ACADEMIC APPOINTMENTS

- 08/1998-08/2006 Assistant Professor
Cognitive Neuroscience Division, Taub Institute for Research on Alzheimer's Disease and the Aging Brain, the G.H. Sergievsky Center, and the Department of Neurology, Columbia University Medical Center, New York, NY
- 08/2006-08/2018 Associate Professor
Cognitive Neuroscience Division, Taub Institute for Research on Alzheimer's Disease and the Aging Brain, the G.H. Sergievsky Center, and the Department of Neurology, Columbia University Medical Center, New York, NY
- 08/2018 - present Professor
Cognitive Neuroscience Division, Taub Institute for Research on Alzheimer's Disease and the Aging Brain, the G.H. Sergievsky Center, and the Department of Neurology, Columbia University Medical Center, New York, NY

HOSPITAL APPOINTMENTS

- 1998-present Psychologist
New York Presbyterian Hospital, New York, NY

EDUCATION

- 09/1987-05/1991 Bachelor of Arts & Bachelor of Science
University of California, Berkeley
Major #1: Psychology

Major #2: Integrative Biology

08/1991-06/1996 Doctorate

University of California, San Diego/ San Diego State University

Joint Doctoral Program in Clinical Psychology

Degree: Clinical Psychology

Specialty Track: Neuropsychology

Dissertation Topic: "The effect of African American acculturation on neuropsychological test performance"

Chairperson: Igor Grant, M.D.

Publication: Manly, J.J., Miller, S.W., Heaton, R.K., Byrd, D., Reilly, J., Velasquez, R.J., Saccuzzo, D.P., Grant, I., & the HIV Neurobehavioral Research Center (HNRC) Group. The effect of African American acculturation on neuropsychological test performance in normal and HIV positive individuals. *Journal of the International Neuropsychological Society* 1998; 4: 291-302.

TRAINING

08/1995-08/1996 Clinical Psychology Intern

Specialty Track: Neuropsychology

Brown University Clinical Psychology Internship Training Consortium

08/1996–08/1998 Postdoctoral Research Fellow

Specialty Track: Neuropsychology

G.H. Sergievsky Center

Columbia University College of Physicians and Surgeons

LICENSURE

Psychology: New York #013454-1

HONORS AND AWARDS

1989 – 1991 Dean's List; University of California, Berkeley

1994 Awarded the Dorathe Frick Memorial Award, for contribution to the UCSD/SDSU Joint Doctoral Program in Clinical Psychology

1995 Paper presentation awarded a Presidential Citation at the 16th Annual Meeting of the Society for Behavioral Medicine, San Diego, CA.

2003 Early Career Award, American Psychological Association Division 40 (Clinical Neuropsychology)

2005 Fellow, American Psychological Association Division 40 (Clinical Neuropsychology)

2006 Early Career Award, National Academy of Neuropsychology

- 2014 Tony Wong Diversity Award for Outstanding Mentorship, National Academy of Neuropsychology
- 2020 Paul Satz-International Neuropsychological Society Career Mentoring Award

Invited Lectureships

- 1999 Invited Address, 107th Annual American Psychological Association Convention, Division 40 (clinical Neuropsychology) “Deconstructing Race and Education: Lessons from Cross-Cultural Neuropsychology”, Washington, DC
- 2003 Distinguished Graduate Lecture in Neuropsychology, UCSD/SDSU Joint Doctoral Program in Clinical Psychology, “Race, Culture, and Education in Neuropsychology”, San Diego, CA
- 2006 1st Annual Norman R. Seay Lecture, “Memory & Aging Research in African Americans”, Washington University, St. Louis
- 2008 Invited Address, 116th Annual Convention of the American Psychological Association, “Cognitive Assessment of Ethnic Minorities: Deconstructing Race and Education”, Boston, MA
- 2011 Invited Address, American Psychological Association Division 40 (Clinical Neuropsychology), “Cognitive Aging among Caribbean Hispanic Immigrants”, Washington, DC
- 2012 Invited Plenary Address, Alzheimer’s Association International Conference, “Challenges for the detection of dementia in culturally, racially and ethnically diverse populations”, Vancouver, BC
- 2017 Invited Plenary Address, 125th Annual Convention of the American Psychological Association, “Lifecourse Mechanisms of Disparities in Cognitive Aging and Dementia”, Washington, DC
- 2017 National Institutes of Health, NIH Director’s Wednesday Afternoon Lecture Series, “Deconstructing lifecourse mechanisms of Alzheimer’s disease disparities”, Bethesda, MD

ACADEMIC SERVICE

Departmental and University Committees

- 2005 – 2010 Member, General Clinical Research Center Scientific Advisory Committee, Columbia University
- 2012 – 2013 Member, Columbia University College of Physicians and Surgeons Strategic Planning Taskforce on Research
- 2014 – 2018 Columbia University Press Advisory Board
- 2015 Faculty Engagement Advisory Committee Member, Columbia University Medical Center
- 2015 – 2018 Core Faculty, “The Future of Aging Research” University Seminar

2015 – 2020	Advisory Committee Member, Columbia University Presidential Scholars in Society and Neuroscience Program
2017 – present	Member, Columbia University College of Physicians and Surgeons Department of Neurology Research Committee
2018	Member, Search Committee, Director of the Robert N. Butler Columbia Aging Center, Mailman School of Public Health (invited by Dean Linda Fried)
2018 – 2020	Columbia University Irving Medical Center Dean's Advisory Committee for Women Faculty (invited by Dean Lee Goldman)
2018 – present	Co-Chair, “The Future of Aging Research” University Seminar
2019 – present	Member, Columbia University Irving Medical Center’s Committee on Appointments and Promotions
2020 -present	Member, Columbia University Faculty Liaison Network, National Academies of Sciences, Engineering and Medicine's Action Collaborative on Preventing Sexual Harassment
2020	Co-Chair, Columbia University Irving Medical Center Working Group on Faculty Recruitment, Retention, Advancement, and Leadership

National Committees

2005 – 2007	National Board of Directors, Alzheimer’s Association
2011 – 2015	Member, Advisory Council on Alzheimer’s Research, Care, and Services
2012 – 2019	Member, Medical and Scientific Advisory Board, Alzheimer’s Association
2018 – present	Member, Committee on Population, the National Academy of Sciences, Washington, DC
2019 – present	Member, Alzheimer’s Association International Research Grant Program (IRGP) Council
2020 – present	Member, National Advisory Council on Aging

NIH Study Section Memberships

2001 – 2007	NIH Adult Psychopathology and Disorders of Aging (APDA) Study Section
2003	NIH ZRG SNEM-2 50 Special Emphasis Panel “Pathways Linking Education to Health”
2017	NIH ZNS1 SRB G(15) Special Emphasis Panel “Detecting cognitive impairment, including dementia, in primary care and other everyday clinical settings for the general public and in health disparities populations”
2017 - 2020	Neurological, Aging and Musculoskeletal Epidemiology Study Section (NAME)

Scientific Advisory Committees

2000 – 2019	External Advisory Board, Mayo Clinic Alzheimer’s Disease Research Center (PI: R. Petersen).
2001 – 2008	External Advisory Board, Michigan Center For Urban African American Aging Research (PI: J. Jackson and P. Lichtenberg).

2005 – 2006	External Advisory Board, University of Arkansas for Medical Sciences Alzheimer's Disease Research Center (PI: C. Beck)
2005 – 2010	External Advisory Board, "Prospective community study of Mild Cognitive Impairment", University of Pittsburgh (PI: M. Ganguli)
2005 – 2009	WAIS-IV/WMS-IV Advisory Panel, Harcourt Assessment, Inc.
2006 – 2012	Consultant, IIRG-05-14532 (PI: K. Hawkins), "Neuropsychological Norms for Older African Americans"
2006 – 2010	External Advisory Board, University of Alabama Birmingham Alzheimer's Disease Research Center (PI: D. Marson)
2014 – 2015	Collaborator, Revision of ICD-10 Diseases of the Nervous System chapter and Mental and Behavioural Disorders chapter: "Disorders with neurocognitive impairment" and "Neurocognitive disorders" sections
2015 – present	Executive Committee, REGARDS Study (Reasons for Geographic and Racial Differences in Stroke Study)

PROFESSIONAL ORGANIZATIONS AND SOCIETIES

Local

2006 – 2014	Member, New York State Association of Neuropsychology
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National

1995 – 2014	Member, American Psychological Association
1995 – present	Member, Society for Clinical Neuropsychology (APA Division 40)
2000 – 2008	Member, National Academy of Neuropsychology
2001	American Psychological Association – Division 40 Program Committee Co-Chair
2002	American Psychological Association – Division 40 Program Committee Chair
2002 – 2005	Steering Committee, American Psychological Association Division 40 Ethnic Minority Affairs Committee
2003 – 2006	American Psychological Association – Division 40 Member-at-Large
2005 - 2007	Member, American Psychological Association Committee on Ethnic Minority Affairs
2006 – 2007	Member, American Psychological Association Integrated Health Care for an Aging Population Presidential Task Force
2007 – 2012	American Psychological Association – Division 40 Council Representative
2007 - 2010	Member, American Psychological Association Board of Scientific Affairs
2011 – 2013	American Psychological Association – Division 45 Member-at-Large

International

1991 – present	Member, International Neuropsychological Society
2005 – 2012	Chair of Continuing Education Program, International Neuropsychological Society
2012 – 2015	Member-at-Large, International Neuropsychological Society Board of Governors

2016 – 2019 Publications Committee Chair, International Neuropsychological Society
 2017 – present Member, International Society to Advance Alzheimer's Research and Treatment

Journal Reviewer

Journal of the International Neuropsychological Society
 The Clinical Neuropsychologist
 Neuropsychology
 Archives of Clinical Neuropsychology
 Journal of Clinical and Experimental Neuropsychology
 Alzheimer Disease and Associated Disorders
 Aging, Neuropsychology, and Cognition
 Developmental Science
 Neurology
 Psychology and Aging
 Neuropsychologia
 Journal of the American Geriatrics Society
 JAMA Neurology
 Alzheimer's and Dementia
 Journal of Alzheimer's Disease

Editorial Boards

2003 – present Consulting Editor, Journal of the International Neuropsychological Society
 2001- 2008 Consulting Editor, The Clinical Neuropsychologist
 2001- 2008 Consulting Editor, Neuropsychology
 2004 – 2008 Consulting Editor, Archives of Clinical Neuropsychology
 2004 – 2009 Consulting Editor, Journal of Clinical and Experimental Neuropsychology
 2004 – 2015 Consulting Editor, Alzheimer Disease & Associated Disorders
 2005 – 2014 Associate Editor, Journal of the International Neuropsychological Society
 2019 – present Consulting Editor, Psychology & Aging

FELLOWSHIP AND GRANT SUPPORT

Present:

07/01/18-06/30/23 Tau PET imaging in racially/ethnically diverse middle-aged adults
 NIH/National Institute on Aging R01AG058067
 (PIs: Brickman and Manly)
 Direct Funds: \$2,532,711
 Role: MPI

04/01/18-03/31/23 Health and Retirement Study Yrs 29 - 34
 NIH/NIA RFA-AG-18-005 (PI: Weir)
 Direct funds: \$144,624
 Role: Co-investigator and PI of CU subcontract

04/01/18-03/31/23	<p>Child Maltreatment and Risk for Mild Cognitive Impairment and Alzheimer's Disease NIH/NIA PAR 15-356 (PI: Widom) Direct funds: \$2,129,830 (CU Subcontract) Role: Co-investigator</p>
04/01/18-03/31/23	<p>Educational and Early Life Predictors of Mild Cognitive Impairment: New Evidence NIH/NIA PAR 15-356 (PI: Warren) Direct funds: \$420,152 (CU Subcontract) Role: Co-investigator and PI of CU subcontract</p>
04/01/18-03/31/23	<p>Brief Research in Aging and Interdisciplinary Neurosciences (BRAIN) T35 AG044303 (PIs: Mayeux, Manly, Hirano, & Noble) Role: MPI</p>
04/01/18 - 03/31/23	<p>Columbia Center for Interdisciplinary Research on Alzheimer's Disease Disparities (CIRAD) NIH/NIA P30AG059303 (PIs: Manly/Luchsinger) Role: MPI</p>
01/01/18-12/31/23	<p>Health and Retirement Study Yrs 29 - 34: Harmonized Cognitive Assessment Protocol NIH/NIA RFA-AG-18-005 (PI: Langa) Direct funds: \$72,312 Role: Co-investigator and PI of CU subcontract</p>
12/01/17-11/30/22	<p>VCID and Stroke in a Bi-racial National Cohort NIH/ National Institute of Neurological Disorders and Stroke Parent R01 2U01NS041588-17 (PIs: Judd, Cushman, Howard and Manly) Direct funds (CU subcontract): \$1,541,891 Role: MPI</p>
09/01/17-08/31/20	<p>ARMADA: Advancing Reliable Measurement in Alzheimer's Disease and cognitive Aging NIH/National Institute on Aging U2CAG057441-01 (Gershon/Weintraub) \$80,291 (Subaward – Northwestern; Y1 only) Role: Co-investigator</p>
08/01/17-05/31/22	<p>Resilience Mechanisms Underlying Racial/Ethnic Disparities in Alzheimer's Disease NIH/National Institute on Aging R01AG054520 (PIs: Brickman/Zahodne) Direct funds: \$788,638 Role: Co-investigator</p>

07/01/17-06/30/22	Blood Pressure control to reduce racial/ethnic disparities in cognitive impairment and dementia NIH/NINDS R01NS102715 (PI: Levine) Direct funds: \$192,044 (CU Subcontract) Role: Co-investigator
09/15/16-08/31/21	School Quality and Racial Disparities in Alzheimer's Disease in Project Talent NIH/National Institute on Aging R01AG056164 (PI: Manly) Direct funds: \$2,744,387 Role: PI
09/01/16-08/31/21	Genetic Epidemiology of Cerebrovascular Factors in Alzheimer's Disease NIH/National Institute on Aging RF1AG054023 (PI: Mayeux) Direct funds: \$5,500,508 Role: Co-Investigator
07/01/16-06/30/21	Offspring Study of Mechanisms for Racial Disparities in Alzheimer's Disease NIH/National Institute on Aging RF1AG054070 (PIs: Manly/Brickman) Direct funds: \$5,771,857 Role: PI
03/15/16-02/28/21	Re-Visiting MCI and Preclinical AD Diagnosis to Inform Future Biomarker Studies NIH/National Institute on Aging R01AG049810 (PIs: Bondi/Edland) Direct funds: \$513,125 (CU Subcontract) Role: Co-Investigator

Past:

1990	NSF-funded Minority Research Scholar's Grant, for Undergraduate Research in the Department of Psychology
1992-1995	Ford Foundation Predoctoral Fellowship Role: Principal Investigator
09/01/96 – 05/31/99	Postdoctoral Research Supplement For Underrepresented Minorities National Institute on Aging Role: Principal Investigator
08/01/98 – 07/31/01	Prediction of Alzheimer's Disease among African-American Elders Alzheimer's Association IIRA-98-020 Role: Principal Investigator
09/01/98 – 08/31/99	Endogenous Estrogens among Ethnically Diverse Elderly Women

- Pilot Grant from the Columbia Resource Center for Minority Aging Research
National Institute on Aging P30 AG15294 (PI: R. Lantigua)
Role: Co-Investigator
- 02/01/99 – 01/31/02 Cognitive Test Performance among African American Elders
New York City Council Speaker's Fund for Biomedical Research
CU 51356101
Direct Funds: \$1,072,309
Role: Principal Investigator
- 09/01/00 – 08/31/01 English Fluency among Hispanic Elders
Pilot Grant from the Columbia Resource Center for Minority Aging Research
National Institute on Aging P30 AG15294 (PI: R. Lantigua)
Role: Co-Investigator
- 11/01/02 – 10/31/05 Literacy and Alzheimer's Disease among African American, White, and Hispanic Elders
Alzheimer's Association Senator Mark Hatfield Award for Clinical Research in Alzheimer's Disease HAT-02-3670
Role: Principal Investigator
- 11/01/03 – 10/31/05 Neuropsychological Tests as Predictors of Functional Decline in African American, Hispanic and Caucasian Alzheimer Patients: A Retrospective Study
Alzheimer's Association New Investigator Research Grant (PI: D. Byrd)
Role: Co-Investigator
- 11/01/05 – 10/30/08 Cognition in the IDEATel Diabetes Trial
Alzheimer's Association IIRG (PI: J. Luchsinger)
Role: Co-Investigator
- 04/01/00 – 03/31/09 Alzheimer's Disease Research Center at Columbia University
National Institute on Aging 2P50 AG08702 (PI: M. Shelanski)
Role: Co-Investigator
- 07/01/04 – 06/30/09 The Epidemiology of Dementia in an Urban Community
National Institute on Aging 5P01 AG07232 (PI: R. Mayeux)
Role: Clinical Core Leader
- 09/15/07 – 8/30/08 Cognitive and Functional Profiles of Mild Cognitive Impairment in African American and Caucasian Samples (PI: D. Marson)
National Institute on Aging Supplement to 2P50 AG08702
Role: Co-Investigator

- 07/01/99 – 08/30/10 Cognitive Test Performance of African American Elders
National Institute on Aging R01 AG16206
Role: Principal Investigator
- 11/01/05 – 05/31/10 Health and Cognition Among African American Women
Alzheimer's Association IIRG 05-14236
Role: Principal Investigator
- 02/01/07-01/14/14 Columbia Center for the Health of Urban Minorities
NIH/National Center on Minority Health and Health Disparities P60
MD00206 (Luchsinger)
Role: Co-Investigator
- 09/15/07 – 06/30/13 Genetic Epidemiology of Alzheimer's Disease among African Americans
NIH/National Institute on Aging R01 AG028786
Role: Principal Investigator
- 03/15/10 - 02/28/15 White Matter Hyperintensities in Aging and Dementia
NIH/ National Institute on Aging R01 AG034189 (Brickman)
Role: Co-investigator
- 05/01/10 - 04/30/15 Epidemiology of Biomarkers of Risk and Progression in LOAD
NIH/National Institute on Aging R01 AG037212 (PI: Mayeux)
Role: Co-Investigator
- 09/30/12-08/31/15 Interdisciplinary Lifecourse Approaches to African American Cognitive
Aging
NIH/National Institute on Aging R13
Role: Principal Investigator
- 04/01/12-03/31/16 Offspring of Ethnically Diverse People With and Without AD
Alzheimer's Association IIRG-11-202789
Role: Principal Investigator
- 09/01/01-11/30/17 Etiology of Geographic and Racial Differences in Stroke (REGARDS)
NIH/National Institute of Neurological Disorders and Stroke
U01NS041588 (PI: Howard)
Direct Funds: \$1,541,891
Role: Co-Investigator
Direct funds: \$134,803
Role: PI
- 09/01/16-08/31/19 Psychosocial protective factors in cognitive and brain aging
NIH/National Institute on Aging R00AG47963 (PI: Zahodne)
Direct funds: \$215,876
Role: Co-Investigator

- 09/01/16 – 08/31/17 White Matter Hyperintensities in Aging and Dementia
NIH/National Institute on Aging R56AG034189 (PI: Brickman)
Direct funds: \$495,931
Role: Co-Investigator
- 09/01/17-05/31/19 Biological aging in older HIV-infected African Americans
NIH/National Institute on Aging R21AG056175 (PIs: Arpadi, Yin)
Direct funds: \$275,000
Role: Co-investigator
- 09/15/17-06/30/18 School Quality and Racial Disparities in Alzheimer's Disease in Project Talent – DNA Supplement
NIH/National Institute on Aging R01AG056164-01S1 (PI: Manly)
Direct funds: \$120,759
Role: PI
- 09/15/17-06/30/18 School Quality and Racial Disparities in Alzheimer's Disease in Project Talent – Minority Oversampling Supplement
NIH/National Institute on Aging R01AG056164-01S2 (PI: Manly)
Role: PI
- 07/01/12-05/31/18 MRI, Genetic and Cognitive Precursors of AD and Dementia
NIH/National Institute on Aging R01AG016495 (PI: Au)
Direct Funds: \$540,163
Role: Co-Investigator

Pending:

Early detection of semantic loss through psycholinguistic measures in preclinical Alzheimer's disease

NIH/National Aging on Aging K99 AG066934 (Vonk)

Role: Mentor

Priority Score: 13

Factors of resilience to Alzheimer's Disease and related dementias among Latinx: The role of bilingualism

NIH/National Aging on Aging K99 AG066932-01 (Arce Rentería)

Role: Mentor

Priority Score: 26

Understanding the mechanisms linking small vessel cerebrovascular disease and Alzheimer's disease pathophysiology with neurodegeneration and cognition during midlife

NIH/National Aging on Aging K99 AG065506-01 (Lao)

Role: Co-Mentor

Priority Score: 30

EDUCATIONAL CONTRIBUTIONS**Direct Teaching/Precepting/Supervising**

1998-2015	Faculty member T32 Postdoctoral Training Grant Neuropsychology and Cognition in Aging (T32 AG0000261, PI: Y. Stern)
2009 - present	Lecturer Cognitive Neuroscience of Aging Doctoral level course Psychology Department Columbia University, New York, NY
2006-Present	Clinical Supervisor Neuropsychology practicum students and predoctoral interns Memory and Aging Program Department of Neurology Columbia University

Advising and MentorshipFellows (primary mentor)

2001 - 2004	Desiree Byrd, PhD
2006 – 2008	Margarita Padilla, PhD
2012 – 2016	Laura B. Zahodne, PhD
2017 – 2018	Vanessa LaBode, PhD
2017 – present	Miguel Arce, PhD
2017 – present	Jet Vonk, PhD
2018 – present	Indira Turney, PhD
2019 – present	Dominika Seblova, PhD
2020 – present	Justina Avila, PhD

Fellows (secondary mentor)

2012 – 2015	Jaime Hamilton, PhD
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Medical School Students

2015	Melanie Hundt, SUNY Upstate Medical University
2016 - 2020	Milou Angevaere, UMC Utrecht, Netherlands
2016	Gloria Felix, Michigan State University
2016	Elizabeth Dalchand, Stonybrook School of Medicine
2017 - 2020	Ramon Rodriguez, Columbia University College of Physicians and Surgeons
2018	Marjorie Diaz, New York Medical College
2020	Danny Pohl, Columbia University Vagelos College of Physicians and Surgeons
2020	Yasmin Issari, Columbia University Vagelos College of Physicians and Surgeons

2020 Juliana Castrillon, Columbia University Vagelos College of Physicians and Surgeons

Graduate Students

2016 - 2017 Laiss Bertola, Federal University of Minas Gerais, Brazil
 2016 – 2018 Batool Rizvi, Neuroscience and Education, Teachers College
 2017 – 2018 Lily Kamalyan, Clinical and Counseling Psychology, Teachers College
 2017 – 2019 Sonia Seehra, Institute of Human Nutrition, Columbia University
 2018 – 2019 Krystal Laing, Clinical and Counseling Psychology, Teachers College
 2018 – 2019 Shana Samuel, Clinical and Counseling Psychology, Teachers College
 2018 – 2019 Roxanna Flores, Clinical and Counseling Psychology, Teachers College
 2018 – 2019 Dayanara Rosado, Clinical and Counseling Psychology, Teachers College
 2018 – 2020 Gelan (Lana) Ying, Clinical and Counseling Psychology, Teachers College

Doctoral Dissertation committees

2001 Committee Member for Stephan Kennepohl, Ph.D., University of Windsor
 2003 Committee Member for Pegah Touradji, Ph.D., Columbia University
 2006 Committee Member for Seta Kazandjian, Ph.D., City University of New York
 2011 Committee Member for Shawnda Lanting, Ph.D., University of Saskatchewan
 2018 Committee Member for Kirsten Frazer, Columbia University
 2018 Committee Member for Justina Avila, University of New Mexico

Undergraduate Students

2016 – 2020 Michelle Martinez
 2016 - 2017 Erika Onigo
 2017 - 2020 Nia Barbee
 2017 - 2020 Juliet Colon
 2017 – 2020 Carolyn Qian
 2018 – 2019 Patricia Ansah
 2018 – 2020 Kailande Cassamajor
 2018 – 2019 Gricelda Weed

High School Students

2018 Katia Kovrizhkin

PUBLICATIONS

Original, Peer Reviewed Articles:

1. Ying, G, Vonk, MJ, Sol, K, Brickman, AM, **Manly, JJ**, Zahodne, LB. (in press). Family ties and aging in a multiethnic cohort. Journal of Aging & Health.
2. Fox, RS, **Manly, JJ**, Slotkin, J, Devin Peipert, J, Gershon, RC. (in press). Reliability and validity of the Spanish-language version of the NIH Toolbox. Assessment.

3. Rizvi, B., Lao, P.J., Colón, J., Hale, C., Igwe, K.C., Narkhede, A., Budge, M., **Manly, J.J.**, Schupf, N., Brickman, A.M. (in press) Tract-defined regional white matter hyperintensities and memory. *NeuroImage: Clinical*.
4. Zahodne, LB, Sharifian, N, Kraal, AZ, Sol, K, Zaheed, AB, **Manly, JJ**, Brickman, AM. (in press). Positive psychosocial factors and cognitive decline in ethnically diverse older adults. *Journal of the International Neuropsychological Society*.
5. Stamm, BC, Lao, PJ, Rizvi, B, Colon, J, Igwe, K, Chesebro, AG, Maas, B, Schupf, N, Mayeux, R, **Manly, JJ**, Brickman, AM. (in press). Parental history of dementia is associated with increased small vessel cerebrovascular disease. *The Journals of Gerontology: Series A*.
6. Avila, JF, Arce Rentería, M, Jones, RN, Vonk, JMJ, Turney, I, Sol, K, Seblova, D, Arias, F, Hill-Jarrett, T, Levy, SA, Meyer, O, Racine, AM, Tom, SE, Melrose, RJ, Deters, K, Medina, LD, Carrión, CI, Díaz-Santos, M, Byrd, DR, Chesebro, A, Colon, J, Igwe, KC, Maas, B, Brickman, AM, Schupf, N, Mayeux, R, **Manly, JJ**. (in press). Education differentially contributes to cognitive reserve across racial/ethnic groups. *Alzheimer's & Dementia*.
7. Gustafson, DR, Bäckman, K, Scarmeas, N, Stern, Y, **Manly, JJ**, Mayeux, R, Gu, Y. (in press). Dietary fatty acids and risk of Alzheimer's disease and related dementias: Observations from the Washington Heights-Hamilton Heights-Inwood Columbia Aging Project (WHICAP). *Alzheimer's & Dementia*.
8. Gershon, RC, Fox, RS, **Manly, JJ**, Mungas DM, Nowinski, CJ, Roney, EM, Slotkin, J. The NIH Toolbox: Overview of development for use with Hispanic populations. *Journal of the International Neuropsychological Society*, 2020; 26:567-575.
9. Levine, DA, Gross, AL, Briceño, EM, Tilton, N, Kabeto, MU, Hingtgen, SM, Giordani, BJ, Sussman, JB, Hayward, RA, Burke, JF, Elkind, MSV, **Manly, JJ**, Moran, AE, Kulick, ER, Gottesman, RF, Walker, KA, Yano, Y, Gaskin, DJ, Sidney, S, Yaffe, K, Sacco, RL, Wright, CB, Roger, VL, Allen, NB, Galecki, AT. Association between blood pressure and later-life cognition among Black and White individuals. *JAMA Neurology*, 2020; 77:810-819.
10. Turney, IC, Chesebro, AG, Rentería, MA, Lao, PJ, Beato, JM, Schupf, N, Mayeux, R, **Manly, JJ**, Brickman, AM. APOE ϵ 4 and resting-state functional connectivity in racially/ethnically diverse older adults. *Alzheimers & Dementia*. 2020;12:e12094.
11. Kulick, ER, Wellenius, GA, Boehme, AK, Joyce, NR, Schupf, N, Kaufman, JD, Mayeux, R, Sacco, RL, **Manly, JJ**, Elkind, MSV. Long-term exposure to air pollution and trajectories of cognitive decline among older adults. *Neurology*, 2020; 94(17):e1782-e1792.
12. Kulick, E., Elkind, M.S.V., Boehme, A.K., Joyce, N.R., Schupf, N., Kaufman, J.D., Mayeux, R., **Manly, J.J.**, Wellenius, G.A. Long-term exposure to ambient air pollution, APOE- ϵ 4 status, and cognitive decline in a cohort of older adults in northern Manhattan. *Environment International*, 2020; 136:105440.
13. Brenowitz, W.D., **Manly, J.J.**, Murchland, A.R., Nguyen, T.T., Liu, S.Y., Glymour, M.M., Levine, D.A., Crowe, M., Hohman, T.J., Dufouil, C., Launer, L. J., Hedden, T., Eng, C., Wadley, V.G., Howard, V.J. State school policies as predictors of physical and mental health: a natural experiment in the REGARDS cohort. *American Journal of Epidemiology*, 2020; 189:384-393.

14. Avila, J. F., Arce Rentería, M., Witkiewitz, K., Verney, S. P., Vonk, J. M. J., & **Manly, J.J.** Measurement invariance of neuropsychological measures of cognitive aging across race/ethnicity by sex/gender groups. *Neuropsychology*, 2020; 34: 3 - 14.
15. Langa, K.M., Ryan, L.H., McCammon, R.J., **Manly, J.J.**, Levine, D.A., Sonnega, A., Farron, M., & Weir, D.R. The Health and Retirement Study Harmonized Cognitive Assessment Protocol Project. Study Design and Methods. *Neuroepidemiology*, 2020; 54:64-74.
16. Sharifian, N., Gu, Y., **Manly, J.J.**, Schupf, N., Mayeux, R., Brickman, A.M., Zahodne, L.B. Linking depressive symptoms and cognitive functioning: the mediating role of leisure activity. *Neuropsychology*, 2020; 34:107-115.
17. Nicoli, CD, Howard, VJ, Judd, SE, Struck, J, **Manly, JJ**, Cushman, M. Pro-Neurotensin/Neuromedin N and risk of cognitive impairment in a prospective study. *Journal of Alzheimer's Disease*, 2020; 76:1403-1412.
18. Zahodne, L.B., Sharifian, N., **Manly, J.J.**, Sumner, J. A., Crowe, M., Wadley, V.G., Howard, V.J., Murchland, A.R., Brenowitz, W.D., & Weuve, J. Life course biopsychosocial effects of retrospective childhood social support and later-life cognition. *Psychology and Aging*, 2019; 34: 867–883.
19. Tsapanou, A., Vlachos, G.S., Cosentino, S., Gu, Y., **Manly, J.J.**, Brickman, A.M., Schupf, N., Zimmerman, M.E., Yannakoulia, M., Kosmidis, M.H., Dardiotis, E., Hadjigeorgiou, G., Sakka, P., Stern, Y., Scarmeas, N., & Mayeux, R. Sleep and subjective cognitive decline in cognitively healthy elderly: Results from two cohorts. *Journal of Sleep Research*, 2019; 28: e12759.
20. Avila, J. F., Vonk, J. M. J., Verney, S. P., Witkiewitz, K., Arce Rentería, M., Schupf, N., Mayeux, R., & **Manly, J.J.** Sex/gender differences in cognitive trajectories vary as a function of race/ethnicity. *Alzheimer's & Dementia*, 2019; 15: 1516-1523.
21. Arce Rentería, M, Vonk, JMJ, Felix, G, Avila, JF, Zahodne, L, Dalchand, E, Frazer, KM, Martinez, MN, Shouel, HL, **Manly, JJ**. Illiteracy, dementia risk, and cognitive trajectories among older adults with low education. *Neurology*, 2019; 93:e2247-e2256.
22. Kulick, E., Wellenius, G., Boehme, A., Schupf, N., Mayeux, R., Sacco, R., **Manly, J.J.**, Elkind, M. Long-term exposure to ambient air pollution and trajectories of cognitive decline among older adults in northern Manhattan. *Neurology*. 2019; 92(Suppl. 15).
23. Vonk, J.M.J., Arce Rentería, M., Avila, J.F., Schupf, N., Noble, J.M., Mayeux, R., Brickman, A.M., & **Manly, J.J.** Secular trends in cognitive trajectories of diverse older adults. *Alzheimer's & Dementia*. 2019; 1-12.
24. Bertola, L., Wei-Ming Watson, C., Avila, J.F., Zahodne, L.B., Angevaere, M., Schupf, N., & **Manly, J.J.** Predictors of episodic memory performance across educational strata: multiple-group comparisons. *Journal of International Neuropsychological Society*. 2019; 25(9): 901-999
25. Ogino, E., **Manly, J.J.**, Schupf, N., Mayeux, R., Gu, Y. Current and past leisure time physical activity in relation to risk of Alzheimer's disease in older adults. *Alzheimer's & Dementia*, 2019; 15:1603-1611.
26. Hamad, R., Nguyen, T.T., Glymour, M.M., Vable, A., **Manly, J.J.**, & Rehkopf, D.H. Quality and quantity: the association of state-level educational policies with later life cardiovascular disease. *Preventive Medicine*, 2019; 126:105750.

27. Devanand, D.P., Liu, X., Cohen, H., Budrow, J., Schupf, N., **Manly, J.J.**, & Lee, S. Long-term Test-retest Reliability of the UPSIT in Cognitively Intact Older Adults. *Chemical Senses*. 2019; 44(6):365-369.
28. Sharifian N, **Manly JJ**, Brickman AM, Zahodne LB. Social network characteristics and cognitive functioning in ethnically diverse older adults: The role of network size and composition. *Neuropsychology*, 2019; 33:956-963.
29. Walter, S., Dufouil, C., Gross, A. L., Jones, R. N., Mungas, D., Filshtien, T. J., **Manly, J.J.**, Arpawong, T. E., & Glymour, M.M. Neuropsychological Test Performance and MRI Markers of Dementia Risk: Reducing Education Bias. *Alzheimer Disease and Associated Disorders*. 2019. 33; p 179-185.
30. Sariya, S., Lee, J. H., Mayeux, R., Vardarajan, B., Reyes-Dumeyer, D., **Manly, J.J.**, Brickman, A. M., Lantigua, R., Madrano, M., Jimenez-Valazquez, I., & Tosto, G. Rare Variants Imputation in Admixture Populations: Comparison across Reference Panels and Bioinformatics Tools. *Frontiers in Genetics*. 2019; 10:239.
31. Vonk, J. M.J., Flores, R. J., Rosado, D., Qian, C., Cabo, R., Habegger, J., Louie, K., Allocco, E., Brickman, A. M., & **Manly, J.J.** Semantic network function captured by word frequency in nondemented APOE $\epsilon 4$ carriers. *Neuropsychology*. 2019; 33(2): 256-262.
32. Brickman, A.M., Tosto, G., Gutierrez, J., Andrews, H., Gu, Y., Narkhede, A., Rizvi, B., Guzman, V., **Manly, J.J.**, Vonsattel, J.P., Schupf, N., The Alzheimer's Disease Neuroimaging Initiative, & Mayeux, R. An MRI measure of degenerative and cerebrovascular pathology in Alzheimer's disease. *Neurology*. [Epub ahead of print]
33. Vonk, J. M. J., Rizvi, B., Lao, P. J., Budge, M., **Manly, J. J.**, Mayeux, R., & Brickman, A. M. Letter and category fluency performance correlates with distinct patterns of cortical thickness in older adults. *Cerebral Cortex*. 2019; 29(6):2694-2700.
34. Raghavan NS, Brickman AM, Andrews H, **Manly JJ**, Schupf N, Lantigua R, The Alzheimer's Disease Sequencing Project, Wolock CJ, Kamalakaran S, Petrovski S, Tosto G, Vardarajan BN, Goldstein DB, and Mayeux R. Whole Exome Sequencing in 20,197 Persons for Rare Variants in Alzheimer Disease. *Ann Clin Transl Neurol*. 2018; 5(7):832-842.
35. Fieo R, Zahodne L, Tang MX, **Manly JJ**, Cohen R, Stern Y. The historical progression from ADL scrutiny to IADL to advanced ADL: Assessing functional status in the earliest stages of dementia. *The Journals of Gerontology. Series A, Biological Sciences and Medical Sciences*. 2018; 73(12):1695-1700.
36. Frazer KM, **Manly JJ**, Downey G, Hart CL. Assessing cognitive functioning in individuals with cocaine use disorder. *Journal of Clinical and Experimental Neuropsychology*. 2018; 40(6):619-632.
37. Last, B.S., Garcia Rubio, M. J., Zhu, C.W., Cosentino, S., **Manly, J.J.**, DeCarli, C., Mayeux, R., Stern, Y., Brickman, A.M. Medicare expenditure correlates of atrophy and cerebrovascular disease in older adults. *Experimental Aging Research*. 2017; 43(2): 149-160.
38. Owolabi, M. Sarfo, F., Howard, V.J., Irvin, M.R., Gebregziabher, M., Akinyemi, R. Bennett, A., Armstrong, K., Tiwari, H.K., Akpalu, A., Wahab, K.W., Owolabi, L., Fawale, B., Komolafe, M., Obiako, R., Adebayo, P., **Manly, J.J.**, Ogbale, G., Melikam, S., Laryea, R., Saulson, R., Jenkins C., Arnett, D.K., Lackland, D.T., Ovbiagele, B., Howard, G., for the SIREN-REGARDS Collaboration. *Stroke in Indigenous Africans, African Americans*

- and European Americans: Interplay of racial and geographic factors. *Stroke*. 2017; 48(5):1169-1175.
39. Glymour MM, Brickman AM, Kivimaki M, Mayeda ER, Chêne G, Dufouil C, & **Manly JJ**. Will biomarker-based diagnosis of Alzheimer's disease maximize scientific progress? Evaluating proposed diagnostic criteria. *Eur J Epidemiol*. 2018 Jul;33(7):607-612.
 40. Emrani, S., Libon, D.J., Lamar, M., Price, C.C., Jefferson, A.L., Gifford, K.A., Hohman, T.J., Nation, D.A., Delano-Wood, L., Jak, A. & Bangen, K.J., 2017. Assessing Working Memory in Mild Cognitive Impairment with Serial Order Recall. *Journal of Alzheimer's Disease*. 2018; 61: 917–928.
 41. Corriveau RA, Koroshetz WJ, Gladman JT, Jeon S, Babcock D, Bennett DA, Carmichael ST, Dickinson SL, Dickson DW, Emr M, Fillit H, Greenberg SM, Hutton ML, Knopman DS, **Manly JJ**, Marder KS, Moy CS, Phelps CH, Scott PA, Seeley WW, Sieber BA, Silverberg NB, Sutherland ML, Taylor A, Torborg CL, Waddy SP, Gubitzi AK, Holtzman DM. Alzheimer's Disease-Related Dementias Summit 2016: National research priorities. *Neurology*. 2017; 89(23):2381-2391.
 42. Johnson NX, Marquine MJ, Flores I, Umlauf A, Baum CM, Wong AWK, Young AC, **Manly JJ**, Heinemann AW, Magasi S, Heaton RK. Racial Differences in Neurocognitive Outcomes Post-Stroke: The Impact of Healthcare Variables. *Journal of the International Neuropsychological Society*. 2017; 23(8):640-652.
 43. Jun GR, Chung J, Mez J, Barber R, Beecham GW, Bennett DA, Buxbaum JD, Byrd GS, Carrasquillo MM, Crane PK, Cruchaga C, De Jager P, Ertekin-Taner N, Evans D, Fallin MD, Foroud TM, Friedland RP, Goate AM, Graff-Radford NR, Hendrie H, Hall KS, Hamilton-Nelson KL, Inzelberg R, Kamboh MI, Kauwe JSK, Kukull WA, Kunkle BW, Kuwano R, Larson EB, Logue MW, **Manly JJ**, Martin ER, Montine TJ, Mukherjee S, Naj A, Reiman EM, Reitz C, Sherva R, St George-Hyslop PH, Thornton T, Younkin SG, Vardarajan BN, Wang LS, Wendlund JR, Winslow AR; Alzheimer's Disease Genetics Consortium., Haines J, Mayeux R, Pericak-Vance MA, Schellenberg G, Lunetta KL, Farrer LA. Transethnic genome-wide scan identifies novel Alzheimer's disease loci. *Alzheimers Dement*. 2017; 13(7):727-738.
 44. Luchsinger JA, Ma Y, Christophi CA, Florez H, Golden SH, Hazuda H, Crandall J, Venditti E, Watson K, Jeffries S, **Manly JJ**, Pi-Sunyer FX; Diabetes Prevention Program Research Group.. Metformin, Lifestyle Intervention, and Cognition in the Diabetes Prevention Program Outcomes Study. *Diabetes Care*. 2017; 40(7):958-965.
 45. Noble JM and Schupf N, **Manly JJ**, Andrews H, Tang M-X, Mayeux R. Secular trends in the incidence of dementia in a multi-ethnic community. *Journal of Alzheimer's Disease*. 2017; 60(3):1065-1075.
 46. Gu, Y., Vorburger, R., Scarmeas, N., Luchsinger, J. A., **Manly, J J.**, Schupf, N., Mayeux, R., & Brickman, A. M. Circulating inflammatory biomarkers in relation to brain structural measurements in a non-demented elderly population. *Brain, Behavior, and Immunity*. 2017; 65:150-160.
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218. **Manly, J.J.**, Miller, S.W., Heaton, R.K., Byrd, D., Reilly, J., Velasquez, R.J., Saccuzzo, D.P., Grant, I., & the HIV Neurobehavioral Research Center (HNRC) Group. The effect of African American acculturation on neuropsychological test performance in normal and HIV positive individuals. *Journal of the International Neuropsychological Society* 1998; 4: 291-302.
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Center (HNRC) Group. The relationship between neuropsychological functioning and coping activity among HIV positive men. *AIDS and Behavior* 1997; 2: 81-91.

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Chapters:

1. Cagigas, X.E., & **Manly, J.J.** Cultural Neuropsychology. In M. Parsons & T. Hammeke (Eds.), *Clinical Neuropsychology: A Pocket Handbook for Assessment*, 3rd Ed. American Psychological Association, Washington, DC, 2014.
2. Cosentino, S., Brickman, A., & **Manly, J.J.** Neuropsychological Assessment of the Dementias of Late Life. In K. Warner Schaie & Sherry L. Willis (Eds.), *Handbook of the Psychology of Aging* (7th edition). Academic Press, London, 2011, pp. 339-352.
3. **Manly, J.J.** Race, Culture, Education, and Cognitive Test Performance among Older Adults. In Hofer, S. and Alwin, D. (Eds.). *Handbook on Cognitive Aging: Interdisciplinary Perspectives*. Sage, Thousand Oaks, CA, 2008, pp. 398-417.
4. **Manly, J.J.**, Schupf, N., Tang, M.-X., Weiss, C.C., & Stern, Y. Literacy and cognitive decline among ethnically diverse elders. In Y. Stern (Ed). *Cognitive Reserve: Theory and Applications*. Taylor & Francis, New York, 2007, pp. 219 - 235.
5. Byrd, D.A. & **Manly, J.J.** Cultural considerations in neuropsychological assessment of the elderly. In S.S. Bush & T.A. Martin (Eds.) *Geriatric Neuropsychology: Practice Essentials*. Psychology Press, New York, 2005, pp. 115 - 139.
6. **Manly, J.J.** Cultural issues. In D. Koltai-Attix & K. Welsh-Bohmer (Eds). *Geriatric Neuropsychology: Assessment and Intervention*. Guilford Publications, New York, 2005, pp. 198 - 222.
7. **Manly, J.J.**, & Mayeux, R. Ethnic differences in dementia and Alzheimer's disease. In N. A. Anderson, R. A. Bulatao, and B. Cohen (Eds.) *Critical perspectives on racial and ethnic differentials in health in late life*. National Academies Press, Washington, DC, 2004, pp. 95 – 141.
8. **Manly, J. J.** & Jacobs, D. M. Future directions in neuropsychological assessment with African Americans. In F.R. Ferraro (Ed.), *Minority and Cross-cultural Aspects of Neuropsychological Assessment*. Swets and Zeitlinger, Lisse, Netherlands, 2001, pp. 79-96.
9. **Manly, J.J.**, Jacobs, D. M., & Mayeux, R. Alzheimer Disease among different ethnic and racial groups. In R.D. Terry, R. Katzman, S.S. Sisodia, & K.L. Bick (Eds.), *Alzheimer's Disease*. Lippincott Williams & Wilkins, Philadelphia, PA, 1999, pp. 117–132.
10. Heaton, R. K., Taylor, M., & **Manly, J.** Demographic effects and demographically corrected norms with the WAIS-III and WMS-III. In D. Tulsky, R. K. Heaton, G. J.

Chelune, R. Ivnik, R.A. Bornstein, A. Prifitera, & M. Ledbetter (Eds.), Clinical Interpretations of the WAIS-III and WMS-III. Academic Press, San Diego, CA, 2003, pp. 181-210.

Published Abstracts (available upon request)

INVITED AND PEER-SELECTED PRESENTATIONS

- 2017 Mid-Year Meeting of the International Neuropsychological Society, “Mechanisms of Disparities in Alzheimer’s Disease”, Cape Town, South Africa
- 2017 Alzheimer’s Association International Conference, “Racial Disparities in Dementia Determinants and Outcome”, London, England
- 2017 Alzheimer’s Association International Conference, “Offspring Study of Racial Disparities in Alzheimer’s Disease”, London, England
- 2017 45th Annual Meeting of the International Neuropsychological Society, “Collaboration of Neuropsychologists in the Americas Can Accelerate Progress in Research and Practice”, New Orleans, LA
- 2016 Wisconsin Alzheimer’s Institute Annual Meeting, “Disparities in Alzheimer’s Disease”, Madison, WI.
- 2014 42nd Annual Meeting of the International Neuropsychological Society, “Ethical, Clinical, and Research Considerations for Cultural Neuropsychology”, Seattle, WA
- 2013 Alzheimer’s Association Research Roundtable, “Cultural Implications of Measuring Function and Cognition”, Washington, DC
- 2012 Alzheimer’s Association International Conference Plenary, “Challenges for the detection of dementia in culturally, racially and ethnically diverse populations”, Vancouver, BC
- 2011 University of Rhode Island Psychology Department. “Race, Culture and Education among Older Adults: Relationships to Cognitive Aging and Risk for Alzheimer’s Disease”, Kingston, RI
- 2011 New York University Alzheimer’s Disease Center, Center of Excellence on Brain Aging Scientific Colloquium, “Alzheimer’s Disease and Cognitive Impairment among Ethnically and Educationally Diverse Older Adults”, New York, NY
- 2011 New York Neuropsychology Group Spring Conference, “Culture and Quality of Education in Neuropsychological Assessment”, New York, NY
- 2011 New York City Chapter of the Alzheimer’s Association, Black History Month Dinner, “Importance of Participation in Research on Aging and Memory among African Americans”, New York, NY
- 2011 New Jersey Neuropsychological Society Fall Conference, “Race, Culture and Education: Relationships to Cognitive Aging and Risk for Alzheimer’s Disease”, Union Township, NJ
- 2011 Dana Alliance for Brain Initiatives and the AARP, “Staying Sharp: Ask the Experts”, New York, NY

- 2011 Columbia University Medical Center Child Psychiatry T32 Fellowship Seminar, “The Role of Race, Culture, and Education in Neuropsychological Assessment”, New York, NY
- 2011 American Psychological Association Division 40 (Clinical Neuropsychology) Invited Address, “Cognitive Aging among Caribbean Hispanic Immigrants”, Washington, DC
- 2010 University of Wisconsin, Madison, Alzheimer’s Disease Research Center and Madison VA Hospital GRECC, “The Effects of Culture and Education on Cognitive Aging and Risk for Alzheimer’s Disease”, Madison, WI
- 2010 NIH State-of-the-Science: Preventing Alzheimer’s Disease and Cognitive Decline, “Risk Reduction Factors for Alzheimer’s Disease and Cognitive Decline in Older Adults: Sociocultural and Demographic Factors”, Washington, DC
- 2010 NIA Conference on Assessment of Cognition in Early Dementia, “Research Considerations for Assessment of Cognitive Function among Diverse Older Adults”, Washington, DC
- 2010 National Institute on Aging Summer Institute on Aging Research, “Cognitive Test Performance of African American Elders”, Wye River, MD
- 2010 National Advisory Council on Aging Task Force on Minority Aging and Health Disparities, “Informed Consent for Genetic and Cognitive Research among African American Older Adults”
- 2010 Columbia University Medical Center Department of Neurology Grand Rounds, “Cognitive Aging and Alzheimer’s Disease among African Americans”, New York, NY
- 2010 Brown University Medical Center Department of Psychiatry Grand Rounds, “Race, Culture and Education among Older Adults: Relationships to Cognitive Aging and Risk for Alzheimer’s Disease”, Providence, RI
- 2010 Binghamton University, State University of New York, Department of Psychology Colloquium, “Race, Culture and Education: Relationships to Cognitive Aging and Risk for Alzheimer’s Disease”, Binghamton, NY
- 2010 8th Annual Symposium on Early Alzheimer’s Disease, “Assessment of Cognitive Impairment among Ethnic Minorities”, Miami, FL
- 2009 University of Arizona, ARL Division of Neural Systems, Memory and Aging, Evelyn F. McKnight Brain Institute, “Race, Language, Education, and Cognitive Aging”, Tucson, AZ
- 2009 National Institute on Aging Summer Institute on Aging Research, “Race, Language, Education, and Cognitive Aging”, Wye River, MD
- 2009 Emory University Department of Neurology and Alzheimer’s Disease Research Center, “Race, Language, Education, and Cognitive Aging”, Atlanta, GA
- 2009 Deep South Resource Center for Minority Aging Research, University of Alabama Birmingham and Tuskegee University, “Cognitive Aging and Dementia among African American Older Adults”, Tuskegee, AL

- 2008 National Institute on Aging Summer Institute on Aging Research, “Cognitive Test Performance among African American Elders”, Wye River, MD
- 2008 Nassau University Medical Center, “Deconstructing Race and Ethnicity: Implications for Health Outcomes”, East Meadow, NY
- 2008 John Jay College of Criminal Justice, Department of Psychology, “Measurement of Cognitive Ability among African Americans”, New York, NY
- 2008 Eighth Annual Early Stage Memory Disorders Forum, NYC Alzheimer’s Association, “Alzheimer’s Disease among African Americans”, New York, NY
- 2008 Challenges in the Neuropsychological Assessment of Ethnic Minorities: A Problem Solving Summit, “Deconstruction of race for neuropsychology: Acculturation, quality of education, and genetic markers”, Waikoloa, HI
- 2008 Boston University School of Medicine, “Race as a Variable in Neuropsychology”, Boston, MA
- 2008 28th Annual Conference of the National Academy of Neuropsychology, “Critical Issues in Cultural Neuropsychology: Theoretical and Empirical Bases for Clinical Practice”, New York, NY
- 2007 University of Virginia, “Educational Experience, Cognitive Aging, and Alzheimer’s Disease among African American Elders”, Charlottesville, VA
- 2007 University of British Columbia, “Deconstruction of Race and Education in Cognitive Assessment”, Vancouver, BC, Canada
- 2007 University of Alabama at Birmingham, “Stigma and Disparities: Alzheimer’s in the African American Community”, Birmingham, AL
- 2007 Oregon Health Sciences University, “Are African Americans at higher risk for Alzheimer’s Disease?”, Portland, OR
- 2007 New York University Center for Brain Health, “Cognitive Aging and Alzheimer’s Disease in African Americans”, New York, NY
- 2007 National Institute on Aging Summer Institute on Aging Research, “Cognitive Aging and Alzheimer’s Disease among African Americans”, Wye River, MD
- 2007 National Institute on Aging Cognitive Aging Summit, “Quality of Education and Cognitive Aging among African American Elders”, Washington DC
- 2007 Florida State University, “Deconstruction of Race and Education for Neuropsychological Studies of African Americans and Hispanics”, Tallahassee, FL
- 2006 University of Southern California, Dementia Assessment Among Ethnic Minority Elders USC – Education Conference
- 2006 University of California: San Diego, “Cognitive Aging and Alzheimer’s Disease Among Ethnically Diverse Elders”, San Diego, CA
- 2006 University of California: Los Angeles, “Literacy, Cognition, and Dementia Among Ethnically Diverse Elders”, Los Angeles, California

- 2006 New York Academy of Sciences, Psychology Section Lecture, “Deconstruction of Race and Education for Research on Cognitive Aging and Alzheimer's Disease”, New York, NY
- 2006 National Institute on Aging Summer Institute on Aging Research, “Race As a Research Variable in Neuropsychology”, Wye River, MD
- 2006 Delta Sigma Theta Sorority, Inc., New Bern Chapter, “The Silent Epidemic: Alzheimer’s Disease in African Americans”, New Bern, NC
- 2006 Boston University Medical Center, “The Role of Cultural and Educational Experience in Detection of AD and Risk for Cognitive Decline Among Ethnically Diverse Elders”, Boston, MA
- 2006 Alzheimer’s Association Care Conference, “Diversity in Dementia Care”, Atlanta, GA
- 2005 University of Washington - Seattle, Friday Harbor Psychometrics Workshop, “Cultural and Demographic Influences on Neuropsychological Test Scores”, Friday Harbor, Washington
- 2005 University of Virginia, “Literacy, Cognition, and Dementia Among Ethnically Diverse Elders”, Charlottesville, VA
- 2005 University of Arkansas for Medical Sciences Alzheimer’s Disease Center, “Neuropsychological Testing among African American Elders”, Little Rock, Arkansas
- 2005 Oregon Health Sciences University, Layton Aging and Alzheimer’s Disease Center, “Alzheimer’s Disease among African Americans”, Portland, OR
- 2005 National Multicultural Conference and Summit 2005, “The Impact of Educational and Cultural Experience on Interpretation of Cognitive Test Scores”, Los Angeles, CA
- 2005 International Psychogeriatric Association 12th International Congress, “Race, Culture, Education, and Cognition among Diverse Elders”, Stockholm, Sweden
- 2005 International Conference on the Future of Cognitive Aging Research, “Race, Culture, Education, and Neuropsychological Test Performance”, State University, Pennsylvania
- 2005 3rd Annual Mild Cognitive Impairment Symposium, “MCI among Ethnically Diverse Elders”, Miami, FL
- 2005 University of Southern California, “Culture and Cognitive Test Performance”, Los Angeles, CA
- 2004 Wayne State University Institute of Gerontology, “Deconstruction of race and education in research on cognitive function”, Detroit, MI
- 2004 Northern California Neuropsychology Forum, “Diversity in Neuropsychological Testing: Issues with African American and Latino Populations”, San Francisco, CA
- 2004 Massachusetts Neuropsychological Society, “Deconstructing Race and Education: Lessons from Cross-Cultural Neuropsychology”, Boston, MA
- 2004 Kessler Medical Rehabilitation Research and Education Corporation, “Cognitive Test Performance among African Americans and Hispanics”, West Orange, NJ

- 2004 Fordham University Department of Psychology, “Race, Education, and Cognitive Test Performance”, New York, NY
- 2004 Duke University Medical School Bryan Alzheimer's Disease Research Center, “Detection of Alzheimer’s Disease among African Americans”, Durham, NC
- 2004 Columbia University School of Social Work, “Minority Health Disparities”, New York, NY
- 2004 Colorado Neuropsychological Society, “Diversity in Neuropsychological Testing: African American Populations”, Denver, CO
- 2004 5th Annual HealthEast Brain Injury Conference, “Diversity in Neuropsychological Testing”, St. Paul, MN
- 2004 25th Annual Conference of the New York Neuropsychology Group, “Deconstructing Race and Education: Lessons for Neuropsychology”, New York, NY
- 2002 Washington University, “African American Neuropsychology”, St. Louis, MO